ADDENDUM No. 4

TO:

ALL BIDDERS

FROM:

CITY OF HIALEAH

RFP#:

2014-15-2000-00-001

RE:

P-25 PUBLIC SAFETY RADIO SYSTEM

DATE:

October 31, 2014

The original contract documents for the entitled: RFP - P-25 Public Safety Radio System need to be amended as noted in this Addendum No. 4.

This Addendum No. 4 consists of 12 typed pages and 0 attachments. All other items and conditions of the original Contract Documents shall remain unchanged. This Addendum shall become a part of the Contract Documents.

Approved for issue: ______ Date: _____ Date: _____ Date: _____ October 31, 2014 ______ Angel Ayala - Purchasing Director

ACKNOWLEDGMENT

Receipt of this Addendum No. 4 shall be acknowledged in the space provided on the ADDENDUM RECEIPT form - ARF (Copy attached) now a part of the Contract Documents to be faxed immediately to the City of Hialeah Purchasing Division (305) 883-5871 and submitted with sealed bids.

City of Hialeah RFP# 2014-15-2000-00-001 Vendor Questions and Answers

Question 1

Section: NA, page: NA

The response to a question was provided at the Pre-Bid Conference, stated the reuse of antenna systems (antenna and cable) is not acceptable. Please further clarify if the reuse of combiners is acceptable.

[Reuse of the existing combiners is not acceptable. Please provide new combiners.]

Question 2

Section 4.2.4, page 42

"The radio repeater system shall operate from the existing 48 VDC power source"

Please confirm the requirement for power is DC solely for the microwave equipment and AC for the remainder of the equipment as clarified in the walk through.

[Correct. The DC power requirements are solely for the microwave equipment.]

Section 4.2.3, page 41

"As an option, please include the installation of a donated 10x20 shelter rated for 200 amps, at the Hialeah Police Department tower site (Site #2). The vendor will be required to provide permits, soil studies, soil preparation, slab, fencing, main FPL power, etc. More information will be available during the mandatory prebid conference and corresponding site visits. It will also be required that the vendor perform the necessary modifications and/or construction of a new ice bridge that will go from the towers to the shelter. This shelter will be used to relocate existing non-trunked radio systems from the communications building and to house the new 800MHz P25 system. NOTE: IT MAY BE REQUIRED TO INSTALL UNDERGROUND PIPES or DUCTS FROM THE SHELTER TO THE BUILDING FOR THE USE OF FIBER OPTICS TO CONNECT THE CONSOLES TO THE RF EQUIPMENT. COPPER USE SHOULD BE AVOIDED TO PREVENT LIGHTNING DAMAGE.

"Please confirm, with respect to Site 2, City of Hialeah will provide and completely install (including, but not limited to: foundation, grounding and electrical) donated shelter and generator in an area adjacent to existing Pirod tower. In accordance with this, the bidders are to propose:

- a. Provide, ground and install new ice bridge to tower from shelter
- b. All electrical distribution as required from customer provided UPS panel
- c. Install all necessary interior shelter grounding in accordance with Motorola R56 or noted equivalent.

[Correct. The Vendor will also provide exterior grounding of the shelter to the tower ground ring at the same time as the grounding for the new ice bridge is performed.]

Question 4

Section 4.2.3, page 41

"The construction of the site access road shall be the responsibility of the City. As mentioned above, the availability of electric and gas utilities shall be the responsibility of the Contractor. Improvements to the land spaces utilized by the towers, equipment shelters, site grounding, site civil work, security systems, all permitting, including, but not limited to NEPA, SHPO, FAA, etc., on-site electrical services and standby power systems shall be the total responsibility of the Contractor"

As the City of Hialeah is clearing and providing an access road for Annex Site 4, would the City consider clearing the parcel of land to be used for the site compound to realize further savings?

[The City has an access road to the area where the new site will be built. Vendors will be responsible for clearing the parcel.]

Question 5

Section 1.2.2.9, page 19

The RFP, paragraph 1 states "The Proposal Response shall be divided into three sections: Technical, Infrastructure Pricing and User Equipment Pricing. One (1) electronic (CD) copy of the Technical Response and one (1) electronic (CD) copy of the Infrastructure and Subscriber Equipment Pricing Responses are to be submitted. The Pricing Responses shall be separated from the Technical Response and independently sealed."

Would the County prefer to have three Proposal Response sections: 1) Technical, 2) Infrastructure Pricing, and 3) User Equipment Pricing, or two Proposal Response sections broken down by 1) Technical and 2) Infrastructure and Subscriber Equipment Pricing?

[Divided into three sections: Technical, Infrastructure Pricing and User Equipment Pricing. One (1) electronic (CD) copy of the Technical Response and one (1) electronic (CD) copy of the Infrastructure and Subscriber Equipment Pricing Responses are to be submitted. The Pricing Responses shall be separated from the Technical Response and independently sealed.]

Section 1.2, page 7

This Specification is a complete document and must be returned intact with any addenda released subsequent to the issuance of this Specification package. In addition, Appendices E through I and Appendices K through N must be completed and returned. All responses and attachments should be placed into the RFP Response immediately behind the page on which the information was requested, in the form of a point-by-point response. Supplementary material may not be substituted for direct responses to questions.

Will the County accept point-by-point responses submitted following each paragraph in lieu of each page as long as the vendor responds to the RFP in its entirety? Alternatively, will the County allow the vendors to alter the RFP so that requirements that currently are broken apart from one page to the next fall entirely on one page?

[Yes, both are acceptable.]

Question 7

Section 1.2.2.2, page 8-9

Pre-Proposal Conferences

The City of Hialeah and its Consultant will hold one Mandatory Pre-Proposal Conference with potential Proposers concerning the requirements. This Conference will be held at the City of Hialeah Fire Administration Building at a date and time to be determined. Any verbal agreements or representations made at this Conference or at any other time during the Proposal period will not be binding on the City of Hialeah. Official statements concerning the Proposal will be issued in writing as an RFP Specification Addenda.

The Mandatory Pre-Proposal Conference is stated to be schedule for October 16 at the Fire Administration Building, please provide the start time and advise if the conference will include site walks as well? Or, will site walks be scheduled?

[Answered in a previous addendum.]

Question 8

Section Appendix J, page 156 INSURANCE REQUIREMENTS

See Insurance Check List for applicability to this contract.

Please identify location or provide a copy of the referenced insurance checklist.

[The Insurance requirements are provided in Appendix K, page 157 - 158.]

Question 9

Section: NA, Page: NA

The question was asked previously posed concerning the reuse of RF antennas and combiners, the City stated reuse was not acceptable, pending the formal written response. A question was later asked during site walks: "May microwave antennas be reused?" This question was taken under consideration.

[Reuse of the existing microwave antennas is not acceptable. Please provide new microwave antennas.]

Section: NA, Page: NA

Relating to the Donated Shelter at PD:

- a. Please confirm the City requires 3-rack of space for "other" equipment.
- b. Please clarify whether the UPS is 25KVA or 30KVA or other.
- c. Please confirm the City will provide the UPS panel. Vendor will be responsible to take power to the equipment racks and install the outlets.

[a. Correct, the City requires three racks for equipment that is not related to this project; b. APC 20 kVA with 151 minutes runtime; c. Correct, the City will provide the UPS panel, but the Vendor will be responsible to take power to the equipment racks and install the outlets.]

Question 11

Section 4.2.4, page 42 - Site 4 Only

"The proposed MW radios at each site shall operate from a new 48VDC battery backup system, sized to sustain full feature operation for a minimum 24-hour period."

- d. Please confirm the vendor is to provide UPS of 8 hours run time on the RF equipment
- e. Please confirm the vendor is to provide 24 hour backup for the 48V MW equipment.

[Correct, the microwave radios will require a new 48VDC battery backup system sized to sustain a full feature operation for a minimum 24-hour period. Battery backup for the RF equipment will require a new UPS system designed to provide full feature operation for a minimum 8-hour period.]

Question 12

Section 5.4, page 49

"To address the density associated with commercial, industrial and residential structures with the City of Hialeah, both existing and proposed for the near future, propagation studies shall assume a minimum penetration loss of 23dB for all buildings", yet section Page 64, Section 7.3 "Measurements will be made from every failed test point to determine if in-building loss exceeds 25dB for that specific test point".

Is 23dB or 25 dB required?

[Vendors are required to provide a radio system design that accounts for a minimum of 23dB of loss from the density associated with commercial, industrial and residential structures.

For purposes of testing indoor signal strength,

- A. Measurements will be made from every failed test point to determine if in-building loss exceeds 25dB for that specific test point.
- B. If penetration loss exceeds 25dB, that specific test point will be omitted from reliability calculations.
- C. If penetration loss is equal to or less than 25dB, that specific test point will remain included in the reliability calculations.
- D. After determining which (if any) test points are omitted, reliability calculations will be repeated. At that time, reliability of less than 95% for the structure represents a failure for the building.

The difference in loss value is intended to account for variations in computed theoretical values (propagation analysis software) versus real world measurements (indoor signal strength).]

Sections 2.0 and 7.0, pages 26 and 63

2.0 Existing Network Configuration includes map "City of Hialeah City Limits".

The new City of Hialeah P25 Digital Trunked Radio Network shall be designed to support portable hand-carried radio equipment, operated both on street and within residences/building structures, at physical locations throughout the City plus a three mile perimeter boundary. Section 2 shows a map of the City of Hialeah, Section 7 refers to the boundaries of the City. There is a discrepancy between the map in Section 2 and the City map on the official City web page.

Can the City of Hialeah provide proposers the GIS Shapefiles for the boundaries to avoid confusion? We would respectfully request that each Shapefile include the following extensions for each file: .shx, .shp, .prj and . dbf.

[The map in Section 2.0 refers to the coverage design of the existing radio system. The map in Section 7.0 refers to the required coverage necessary for the new radio system.]

Question 14

Section 7.5, page 66

Test grid sizes within the City of Hialeah's densely-constructed central business district, and governmental areas shall be no greater than 400ft x 400ft. Grids throughout the other areas of the City shall utilize grid sizes no greater than 2,000ft x 2,000ft. Grids sizes outside the City's boundaries shall be no greater than 4,000 ft. x 4,000 ft. A minimum of 500 accessible grids shall be tested. The City of Hialeah or designee and the Contractor shall mutually determine the size/location of grids and a suitable drive route that encompasses the entirety of accessible grids.

Please define the specific areas you describe as your densely-constructed central business district and governmental area geographically.

[For the purpose of this RFP, assume that the entire City of Hialeah is densely constructed commercial buildings and therefore all propagation studies are required to assume a loss of 23dB throughout the City. All requested coverage maps still apply.]

Can the City of Hialeah provide proposers the GIS Shapefiles for these boundaries to avoid confusion? We would respectfully request that each Shapefile include the following extensions for each file: .shx, .shp, .prj and . dbf.

[A request for GIS Shapefiles has been submitted. At this time we are still waiting for an answer from the City GIS Department.]

Section 7.3, page 65

"Proposers shall assume that the typical in-residence structure occupies up to 2,500 square feet and utilizes single-floor, wood-framed brick veneer type construction."

We respectfully request that the in-residence structure is clarified in terms of dB loss instead of construction type.

[For the purpose of this RFP, assume that the entire City of Hialeah is densely constructed commercial buildings and therefore all propagation studies are required to assume a loss of 23dB throughout the City. All requested coverage maps still apply.]

Question 16

Section 7.2, page 63

Both mobile radio and portable radio on-street coverage must extend throughout no less than 95% of that area within the land region inclusive of the City of Hialeah, plus a three-mile perimeter overlapping area extending into its adjacent bordering counties. Desired in-building portable coverage shall be no less than 95% within the entire land area encompassing the County.

Please confirm that this sentence should refer to adjacent cities and land areas encompassing the City, not counties nor land area encompassing the County.

[Correct. This statement should refer to adjacent cities and land areas encompassing the City.]

Question 17

Section 6.5, page 61

E. A separate 48VDC microwave standby battery system shall be provided and sized for 24-hours of continuous microwave/ multiplex equipment operation at each infrastructure site. An automatic low-voltage disconnect system shall be employed to protect the battery plant from deep-cycle discharge damage.

Please define the recharge time required.

[There is no required recharge time.]

Question 18 Section 4.2.4, page 42

The radio repeater stations shall operate from the existing 48VDC power source. The proposed MW radios at each site shall operate from a new 48VDC battery backup system, sized to sustain full feature operation for a minimum 24-hour period. The battery system shall utilize sealed lead-calcium cells and 100% redundant battery charger components rated for telecommunication service. An automatic low voltage disconnect device shall be provided for each set of batteries to protect the battery plant from discharge-related damage. Electrical power switching/disconnect capability shall exist at all sites such that rectifiers, batteries as well as commercial power sources may be separately isolated in a manner in which each component may be worked on safely.

Please provide the brand, model and capacity of the existing power source and any load that already exists or will be sharing that should be accounted for in addition to what the proposer will be providing.

[The existing UPS Systems are APC 20 kVA with 151 minutes runtime.]

Question 19

Section 4.2.2, page 38

"This submittal requirement is mandatory and those proposals failing to include such a dual-site redundancy option will be considered as being unresponsive to these Specifications."

Motorola interprets the requirement for dual site redundancy as a mandatory part of the base proposal. The word "option" might suggest that this should be proposed as a separate optional offering. Please confirm.

[Answered in a previous addendum].

Question 20

Section 4.1, page 37

This P25 800MHz digital trunked radio system will initially be sized to support the existing analog network system user load (approximately 1,800 users) but is anticipated to grow by approximately 25% additional capacity within the next five years. Therefore, the proposed new radio network shall be capable of straightforward channel expansion via 700/800MHz, without the addition or elimination of any existing previously installed equipment, to support ever-increasing user needs. The current system is 10 channel however the RFP indicates that the City has an additional 3 channels available for P25.

Does the City desire a 10 channel system design with a future expansion of the additional 3 Channels? Or does the City require a 13 channel system design?

[Answered in a previous addendum.]

Section N/A, page N/A

Please advise if the City would find the use of existing antenna systems and / or combiners acceptable.

[Reuse of the existing antennas/combiners is not acceptable. Please provide new antennas/combiners.]

Question 22

Section 13.1.5.E, page 116

A random field test of three different manufacturer's (non-Proposers) i.e. portable radio devices (of varying tiers) shall be required to determine P25 compatibility of Proposers new 700/800MHz network. This test shall use approximately 10 portable devices per tier per manufacturer, or a total of 120 portable non-Proposer portable radios tested. If 10% or more of each type or model of equipment tested fails to meet the manufacturer's specifications, then the Contractor shall be required to perform a test of 100% of that type or model. If more than two units fail to perform adequately, and the units are determined by the manufacturer to meet P25 compatibility, the Proposers network will be deemed non-P25 compliant. All replacements for failed units shall also be tested in the same manner as outlined above. All mobile radio installations shall require 100% operational test verifications:

Motorola's ASTRO 25 system and subscribers are designed to the Project 25 TIA-102 standard documents.

Official SDoCs and STRs for all of Motorola's P25 CAP tested equipment will be provided. The testing results for non-Motorola P25 Compliant vendors will also be provided.

Will these formal CAP testing records satisfy this requirement for the City of Hialeah, thus eliminating cost to the City for the 120 testing radios?

[Yes, CAP testing records will satisfy this requirement. Vendors are requested to provide a statement listing the systems for which their equipment has been CAP tested on for compliance.]

Question 23

Section 6.5B

Redundant transmit, receive and base band equipment for each site, configured for automatic hot standby operation, shall be provided. This redundant equipment must automatically switch to the hot standby component(s) upon failure of the primary equipment. Loop-switched configurations, where proposed, shall also incorporate monitored hot standby radio components.

Is the required design a loop WITH hot standby?

[Yes, a loop design with dual hot stand-by is required.]

Section 4.2.3, page 41

Typical Simulcast Infrastructure Site Deployment, (below the Annex Site 4 section)

As an option, please include the installation of a donated 10x20 shelter rated for 200 amps, at the Hialeah Police Department tower site (Site #2).

Please confirm that this shelter is to be installed at site 2, rather than taken from Site 2 for placement at Site 4. Also please confirm if the customer is responsible for transport of donor shelter.

[Correct. The donated shelter will be installed at Site #2. Site #4 will require a new shelter.]

Question 25

Section 10.5, page 86

Tower Requirements (Site#4 - Annex Site Only)

The basic standard for the design of newly required steel antenna towers, wave guide bridges and supporting structures, shall be TIA-222-G or latest version.

Please identify the soil type to be assumed by the proposers, for the foundation design of this tower.

[Proposers should assume the soil type at the Annex Site is sand.]

Question 26

Section 6.5, page 61

Fixed Microwave Equipment Requirements

Please advise if indoor microwave radios are required or if split mount radios are acceptable.

[Yes, indoor microwave radios are required. Split mount radio are NOT acceptable.]

Question 27

Section 4.2.3

During the pre-bid conference, there was verbal confirmation made that the optional "donated shelter" portion of the RFP will become mandatory. Is the donated shelter optional or mandatory?

[At the time the RFP was written, preparation of the donated shelter was requested to be an optional cost. Since that time, the City has confirmed that the donated shelter would be available for use with the new radio system. At this time Vendors will be required to prepare the donated shelter for use in the new radio system.]

Section 4.2.3

Please confirm if Hialeah PD will provide installation and foundations for donated shelter (10'x20'), utility power (200 amp) to the shelter (with main distribution panel), backup generator, redundant HVAC systems, UPS (with bypass switch and distribution panel), and compound work (new fencing, gravel, etc.).

[Correct. The City will provide installation and foundations for the donated shelter (10'x20'), utility power (200 amp) to the shelter (with main distribution panel), backup generator power, redundant HVAC systems, a UPS (with bypass switch and distribution panel), and any required compound work (new fencing, gravel, etc.).]

Question 29

Section 4.2.3

At the Hialeah Police Department, does the City intend to provide a cable ice bridge between the donated shelter and the existing tower, electrical receptacles from the UPS distribution panel to the locations above new racks, internal/external shelter ground systems (including services to tie in the shelter ground systems to the existing tower ground system)?

[Vendors will be required to provide the ice bridge from the existing tower to the donated shelter, electrical receptacles from the UPS distribution panel to the locations above new racks, internal/external shelter ground systems (including services to tie in the shelter ground systems to the existing tower ground system).]

Question 30

Section 4.2.3

Will the City provide network fiber connectivity between the donated shelter and the dispatch center at the police department?

[No, the City will not provide fiber connectivity between the new back up dispatch center and the shelter.]

Question 31

Section 4.2.4

What are the current backup power systems for the existing radio repeater stations? Also, what does the City prefer (UPS or DC Plant) when proposing new power supplies for the new P25 system? At what runtime?

The current backup power for the existing radio system is based on dedicated UPS systems at all sites. No UPS system will be replaced as part of this project. For the Annex Site, the City prefers a DC plant for the microwave system with a runtime of 24 hours and a UPS system for the RF equipment with a runtime of 24 hours.]

Question 32

Section 8.3.2

In referring to the last sentence of Section 8.3.2, is it the City's expectation that all prospective vendors are required to include pricing for supply battery backup, emergency generator, and/or designated circuits at the secondary E911/Dispatch Center in their proposals?

[It is not necessary to provide prices for a battery backup (UPS) and/or emergency generator. If any circuits are needed they should be quoted.]

Section 10.2

Does Section 10.2 apply to all existing sites that have shelters with pre-existing electrical configurations?

[All existing sites are required to be brought to up-to-date standards per winning vendor requirements.]

Question 34

Section 10.4

Does Section 10.4 apply to all existing sites that have shelters with pre-existing alarm systems?

[The existing sites are already alarmed to monitor temperature, repeaters and fixed end equipment, etc. The winning vendor must verify and correct as necessary, the existing alarms that will survive the system change to be able to interface with a new fault monitoring system. New alarms to be provided by the winning vendor for the new radio system as needed.]

Question 35

Section 14.1.1.C

Please confirm response times per this section.

[The City requires at least 3 levels of response times based on the nature of the problems with technicians available within a 50 miles radius from Hialeah.]

Level of Severity	Technician Response Time	Restoration Time	Deferrals
	Once notified 2 hours to		Not
1 (critical)	respond	8 hours max	allowed
	Once notified 4 hours to	:	
2 (not critical)	respond	8 hours max	allowed
	Once notified 24 hours to		
3 (not critical)	respond	48 hours max	allowed

Question 36

Section 2.3

Is the City's requirement 15 Phase 2 base stations or 15 phase 2 talkpaths?

[The City requires 15 Phase 2 base stations.]

Question 37

Section 2.3

If the requirement is 15 Phase 2 base stations, what are the additional 2 frequencies?

[The City has a total of 15 channels licensed for trunking on 800 MHz and 1 channel licensed for conventional only operations. From the 15 channels 10 are operating under 1 license as mentioned on the RFP and 5 on another license. Three out of the five channels will be used for the new system and two are currently used as emergency channels in mixed mode for PD and FD.]

Section 4.2.2

Is the secondary switch mandatory or optional?

[It is required that the secondary switch be included as an optional item.]

Question 39

Section 4.2.2

Is the secondary control point mandatory or optional?

[It is required that the secondary control point be included as an optional item.]

Question 40

Section 8.2

Will drawings of the new backup dispatch center be provided?

[Drawings have already been provided as an addendum.]

Question 41

Section 6.5

Does the microwave need to be indoor radios?

[Yes. Indoor radios required for the microwave system.]

Question 42

Section 8.3.2

Are individual UPS's required for each console?

[No individual UPS's are required for the dispatch consoles. The City has UPS outlets on all dispatch positions tied to a main UPS system dedicated to the radio system and consoles.]

Question 43

Section 4.7

Is a new 5-channel mutual aid system required?

[No, the existing mutual-aid radio system will be reused.]

Question 44

Section 4.7

Are mutual aid coverage maps required?

[Mutual-aid coverage maps are not required.]

Addendum No. 4 Page 12

END OF ADDENUM No. 4

CITY OF HIALEAH

P-25 PUBLIC SAFETY RADIO SYSTEM

2014/15-2000-00-001

ADDENDUM No. 4

COMPANY NAME			
ADDRESS		44.400	
PHONE NO.			
CONTACT NAME	SIGNATURE		
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